STATISTICS

12th CLASS - 1st Annual 2023

TIME: 20 MINUTES MARKS: 17

DGK-11-23

OBJECTIVE

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

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	STION NO. 1
1	Correlation co-efficient between X and X is
	(A) 0 (B) -1 (C) $+1$ (D) -1 to $+1$
2	Co-efficient of association Q lies between
	(A) 0 to +1 (B) -1 and +1 (C) - ∞ and +1 (D) - ∞ to + ∞
3	The shape of χ^2 - distribution depends upon
	(A) Mean (B) Degrees of freedom (C) Number of cells (D) S.D
4	A sudden decrease in supplies due to floods is
	(A) Secular trend (B) Seasonal variations (C) Cyclical variations (D) Irregular variations
5	A sequence which follow regular variations is called
	(A) Signal (B) Noise (C) Model (D) Trend
6	One byte equals
	(A) 8 bits (B) 4 bits (C) 6 bits (D) 12 bits
7	Shape of normal curve is
	(A) J (B) L (C) Bell (D) Circle
8	In a normal distribution $E(x - \mu)^2$ is
	(A) Q.D (B) S.D (C) Variance (D) M.D
9	The maximum ordinate of standard normal curve is at
	(A) 0 (B) 1 (C) μ (D) σ
10	In sampling with replacement the population becomes
	(A) Infinite (B) Existent (C) Finite (D) Hypothetical
11	Non probability form of sampling is
	(A) Quota sampling (B) Random sampling (C) Stratified sampling
	(D) Systematic sampling
12	
	(A) $\frac{\sigma}{n}$ (B) $\frac{\sigma}{\sqrt{n}}$ (C) $\frac{\sigma^2}{n}$ (D) $\frac{\sigma}{\sqrt{n}} \cdot \frac{N-n}{N-1}$
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13	A formula or function used to estimate a parameter is called
	(A) Estimate (B) Estimation (C) Bias (D) Estimator
14	Which of the following cannot be null hypothesis
	(A) $\theta \le \theta_o$ (B) $\theta \ge \theta_o$ (C) $\theta = \theta_o$ (D) $\theta \ne \theta_o$
15	Probability of rejecting true hypothesis is called
	(A) Critical region (B) Level of significance (C) Test statistic (D) Power of test
16	In the regression equation $Y = a + bx$, "a" is the
	(A) Y-intercept (B) Slope (C) X-intercept (D) Trend
17	In least squares regression line $\Sigma(Y-\widehat{Y})^2$ is always
.,	(A) Negative (B) Non-negative (C) Zero (D) Fractional

 $\Sigma x = 0$, $\Sigma y = 245$, $\Sigma x^2 = 28$ and $\Sigma xy = 66$. Also compute the trend values

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